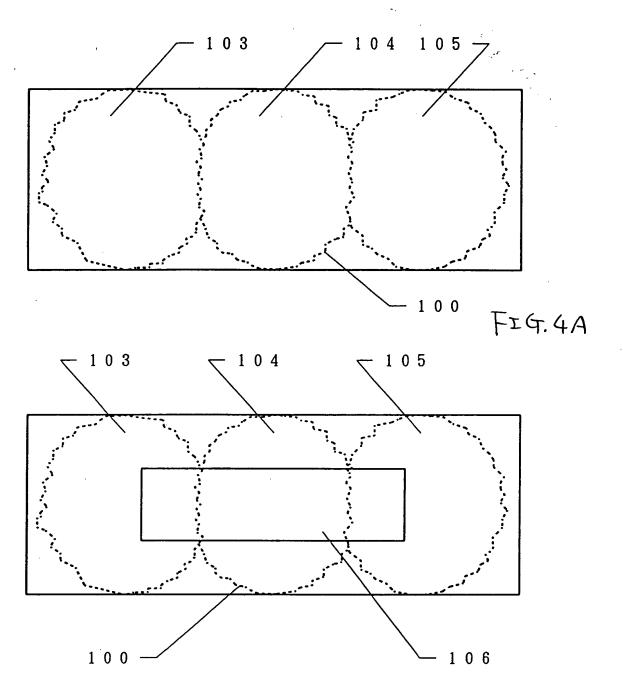


F16.3D



F14.4B

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	SINGLE CRYSTALLINE	MONODOMAIN TFT
	SILICON TFT	
GRAIN BOUNDARY	МО	NO
CONCENTRATION OF HYDROGEN (cm-3)	detection limit	1 x 10 ¹⁵ - 1 x 10 ²⁰
ESR (cm-3)	detection limit	$1 \times 10^{15} - 1 \times 10^{17}$
CRYSTALLINITY	YES	YES
MOBILITY	P-channel:300-500	P-channel:200-400
(Vs/cm²)	N-channel:800-1200	N-channel:500-1000
S VALUE	0.01 - 0.1	0.03 - 0.3
	formed into single	semiconductor thin
	crystalline silicon	film formed on
FORM	wafer	insulating substrate
		such as glass
		(strain point of
	·	550- 750 °C) is
		used.
PROCESS	800-1100,	450-700
TEMPERATURE (°C)	typically	typically
	900-1000	500-650

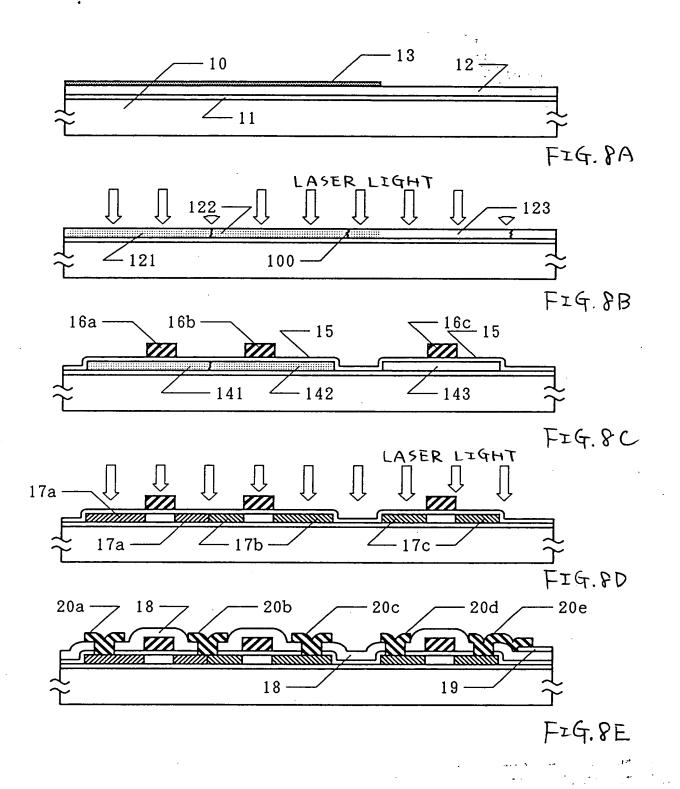
FIG.5

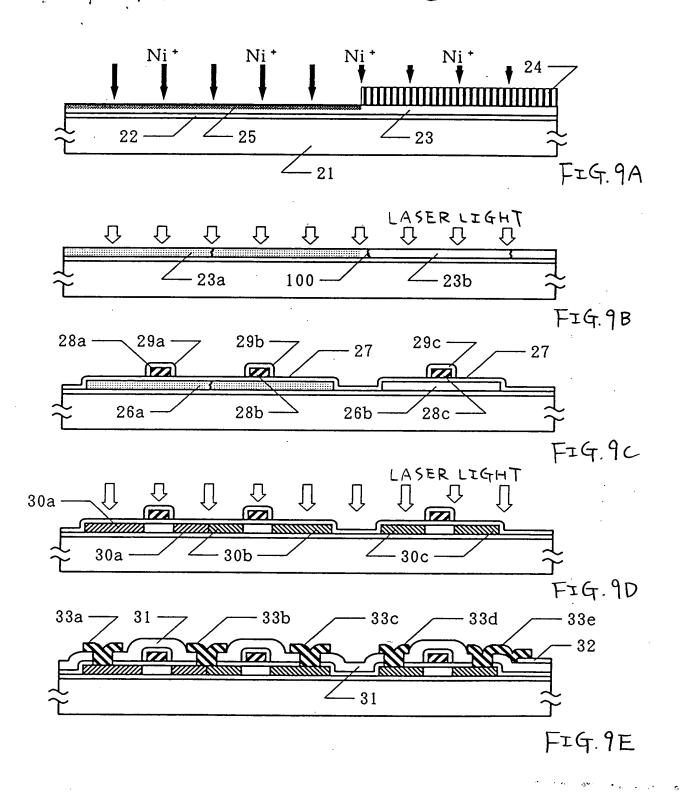
	P-Si (poly-silicon)	a-Si (amorphous
	TFT	silicon) TFT
GRAIN BOUNDARY	YES	NO
CONCENTRATION OF	$5 \times 10^{19} - 5 \times 10^{20}$	$1 \times 10^{20} - 5 \times 10^{21}$
HYDROGEN (cm-3)		
ESR (cm ⁻³)	$1 \times 10^{17} - 1 \times 10^{18}$	1 x 10 ¹⁸ - 1 x 10 ¹⁹
CRYSTALLINITY	YES	NO
MOBILITY	P-channel:50-100	P-channel:0.01-0.5
(Vs/cm²)	N-channel:100-200	N-channel:0.5-2
S VALUE	0.1 - 0.5	0.3 - 0.7
	semiconductor thin	semiconductor thin
	film formed on	film formed on
FORM	insulating substrate	insulating substrate
	such as glass is	such as glass is
	used.	used.
PROCESS	300-600,	200-400
TEMPERATURE (°C)	typically	typically
	500-580	300-350

FI 4.6



F=G.7





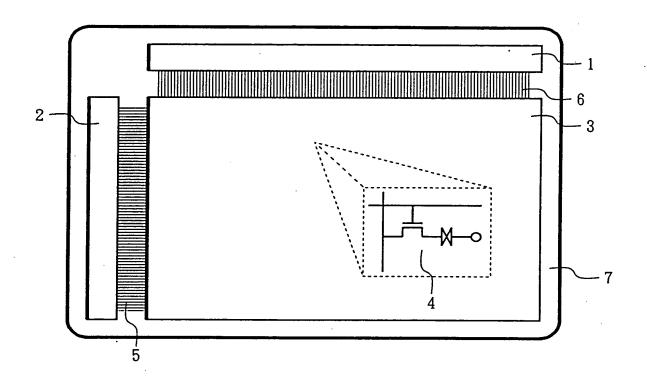
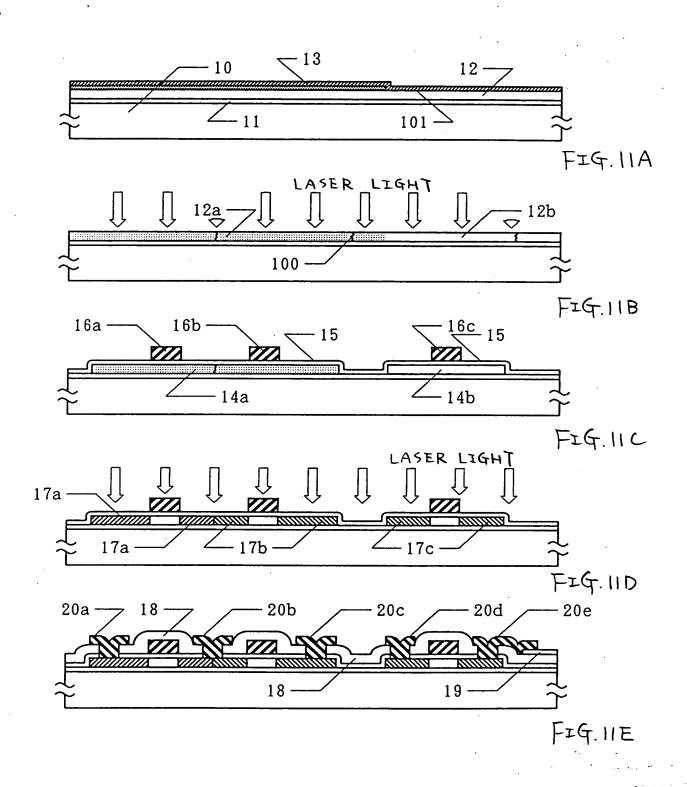
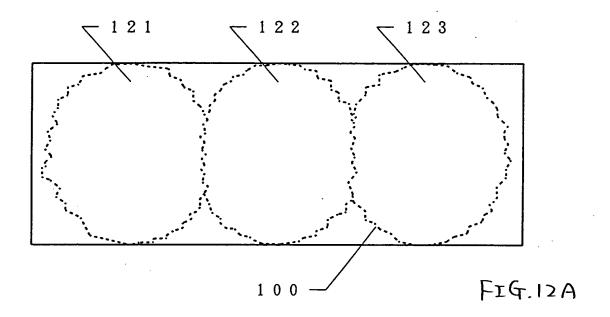


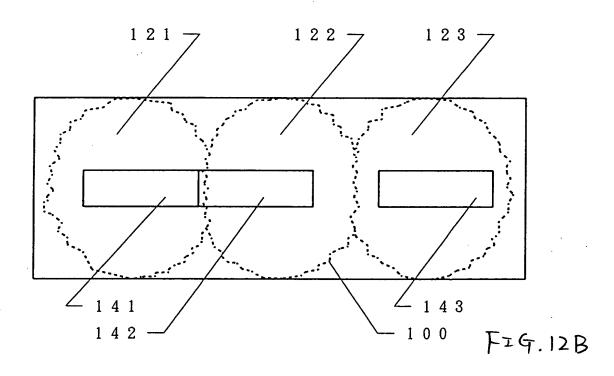
FIG. 10

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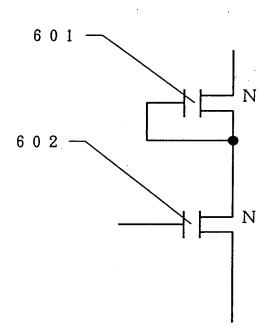
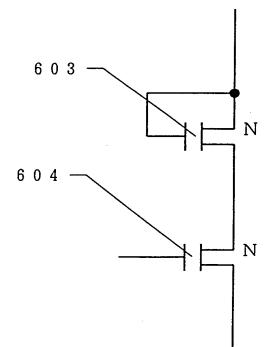


FIG. 13A



F24. 13B